COMPREHENSIVE PERMIT PLAN SET 248 HIGH STREET ACTON, MASSACHUSETTS

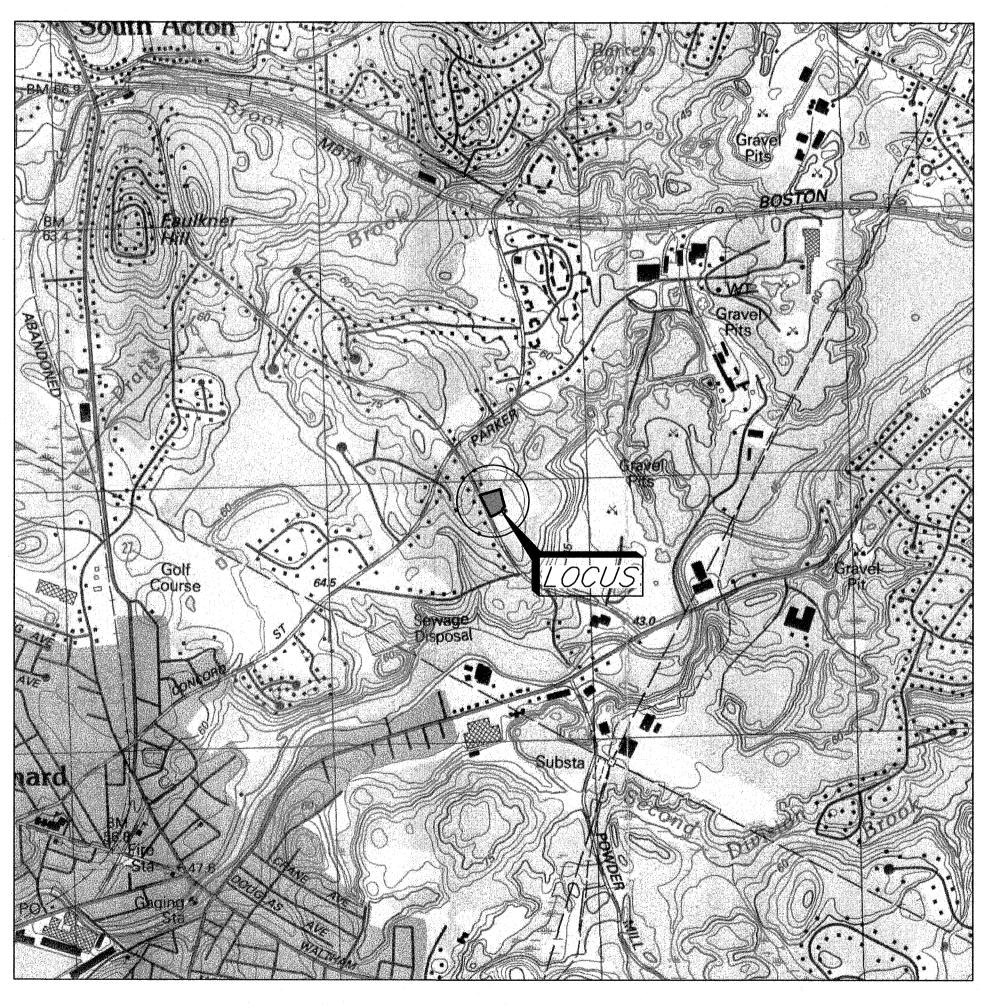
"ADELINE WAY"

ASSESSOR MAP J3 - PARCEL 7 PREPARED FOR 248 HIGH STREET, LLC

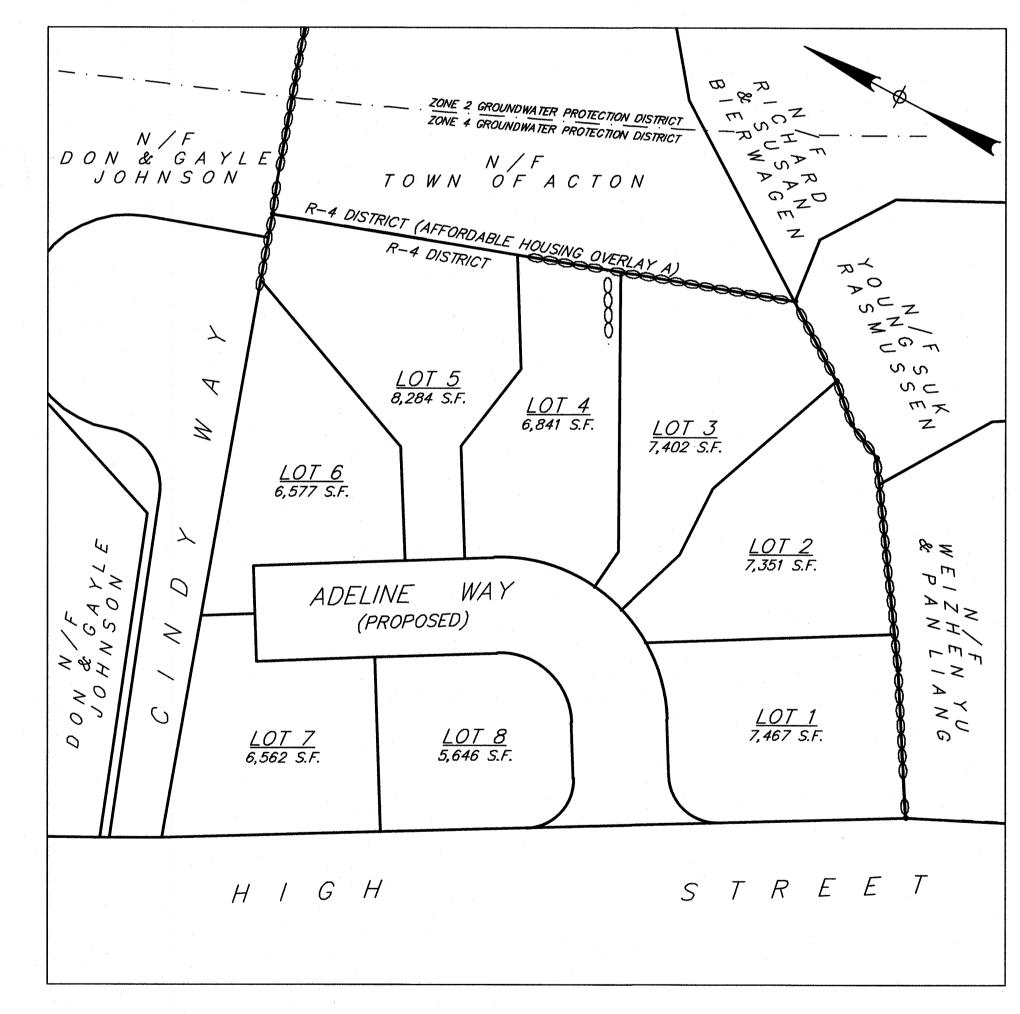
OWNER/APPLICANT: 248 HIGH STREET, LLC 159-1 PROSPECT STREET ACTON, MA 01720

DEED RECORDED AT MIDDLESEX SOUTH REGISTRY BOOK 66792 PAGE 231

CIVIL ENGINEERS & SURVEYORS DA VID E. ROSS ASSOCIATES, INC. 111 FITCHBURG ROAD P.O. BOX 368 A YER, MA 01432



USGS LOCUS MAP SCALE: 1"=1200"



KEY PLAN SCALE: 1"=40'

SHEET INDEX

SHEET 1 - TITLE SHEET

SHEET 2 - MASTER PLAN

SHEET 3 - PLAN OF LAND

SHEET 4 - NATURAL FEATURES & EXISTING CONDITIONS PLAN

SHEET 5 - SITE DEVELOPMENT PLAN

SHEET 6 - PLAN & PROFILE

SHEET 7 - CONSTRUCTION DETAILS PLAN

SHEET 8 - LANDSCAPE PLAN

SHEET 9 - EROSION & SEDIMENTATION CONTROL PLAN

ACTON ZONING BOARD OF APPEALS

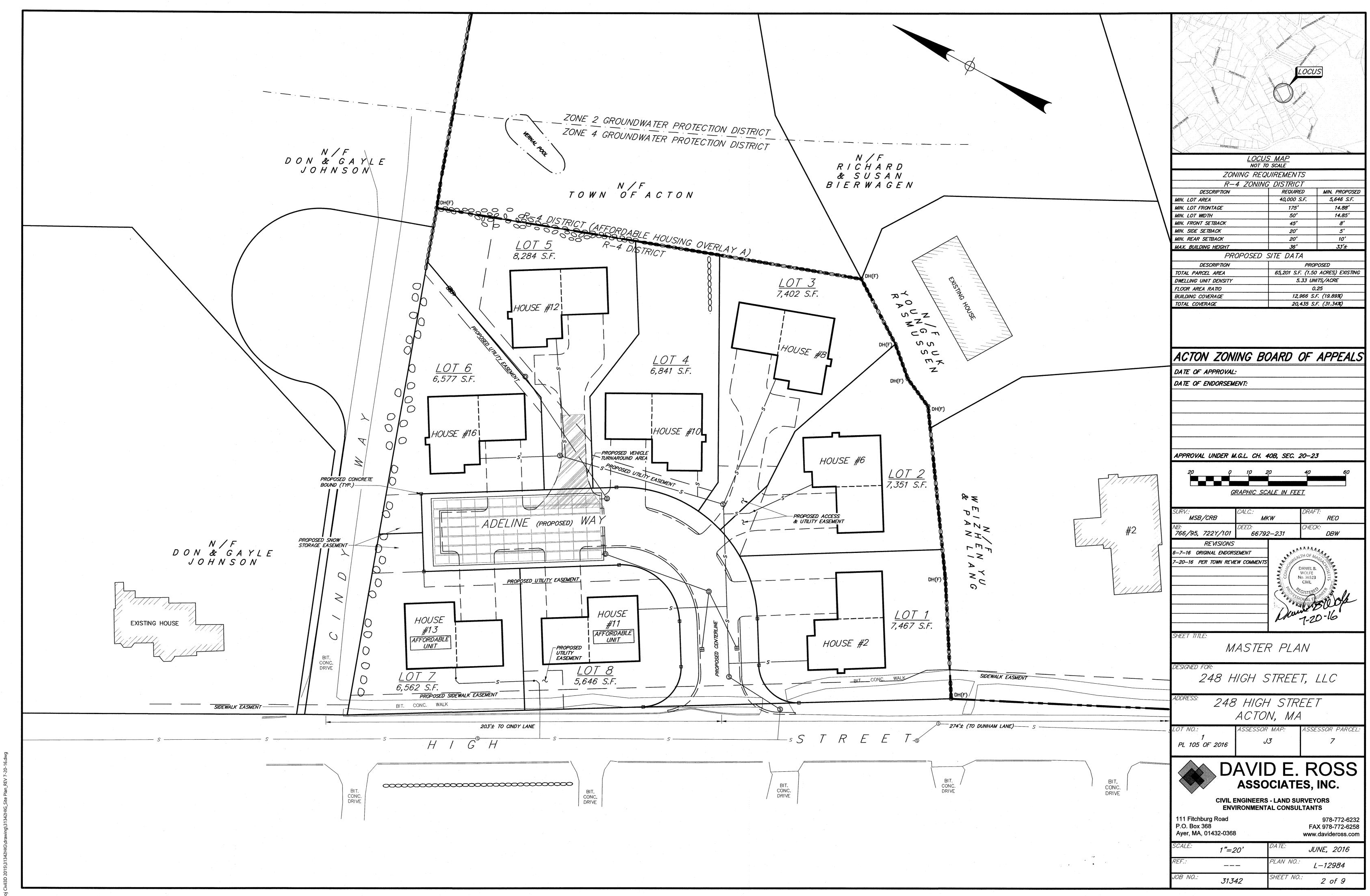
DATE OF APPROVAL:

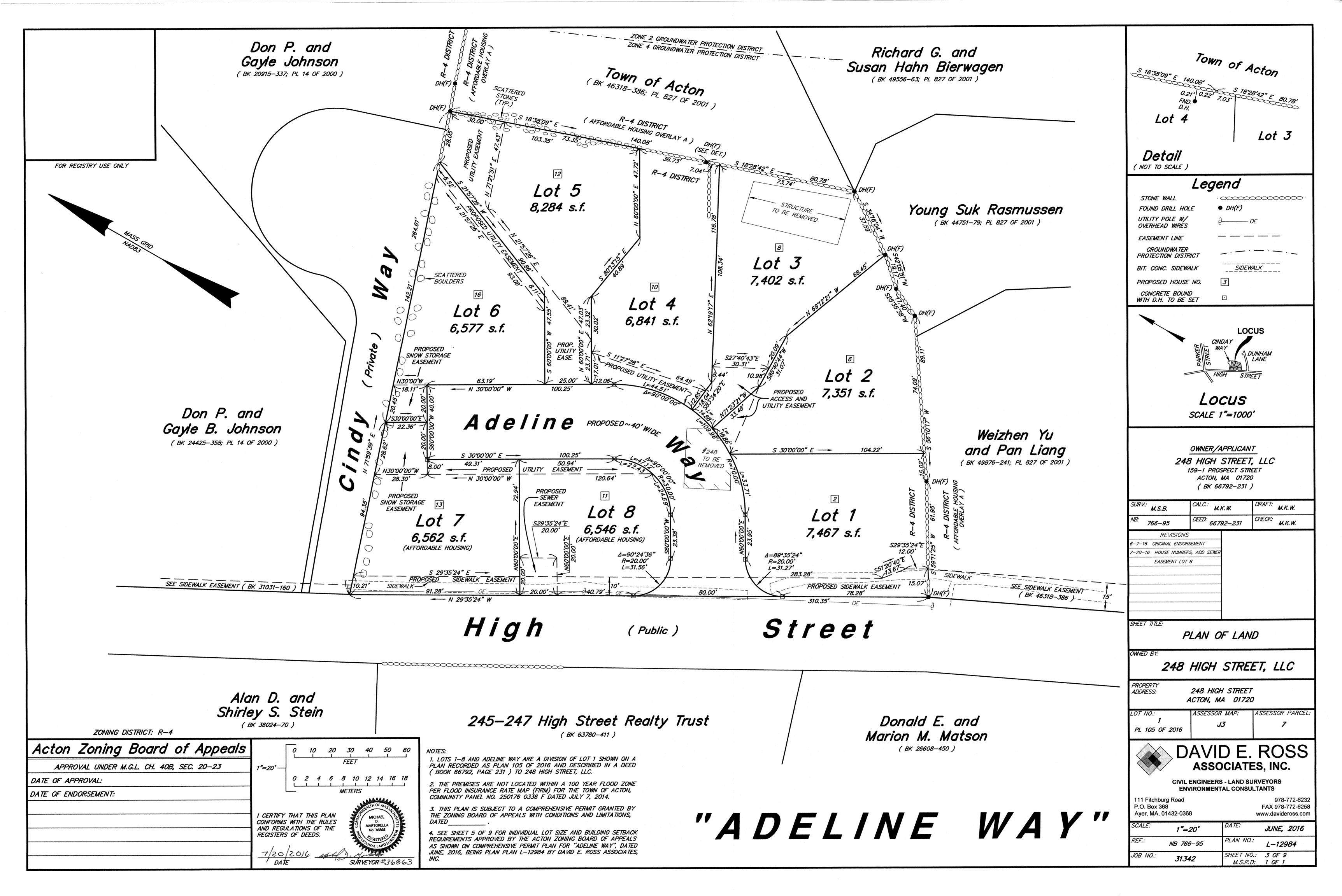
DATE OF ENDORSEMENT:

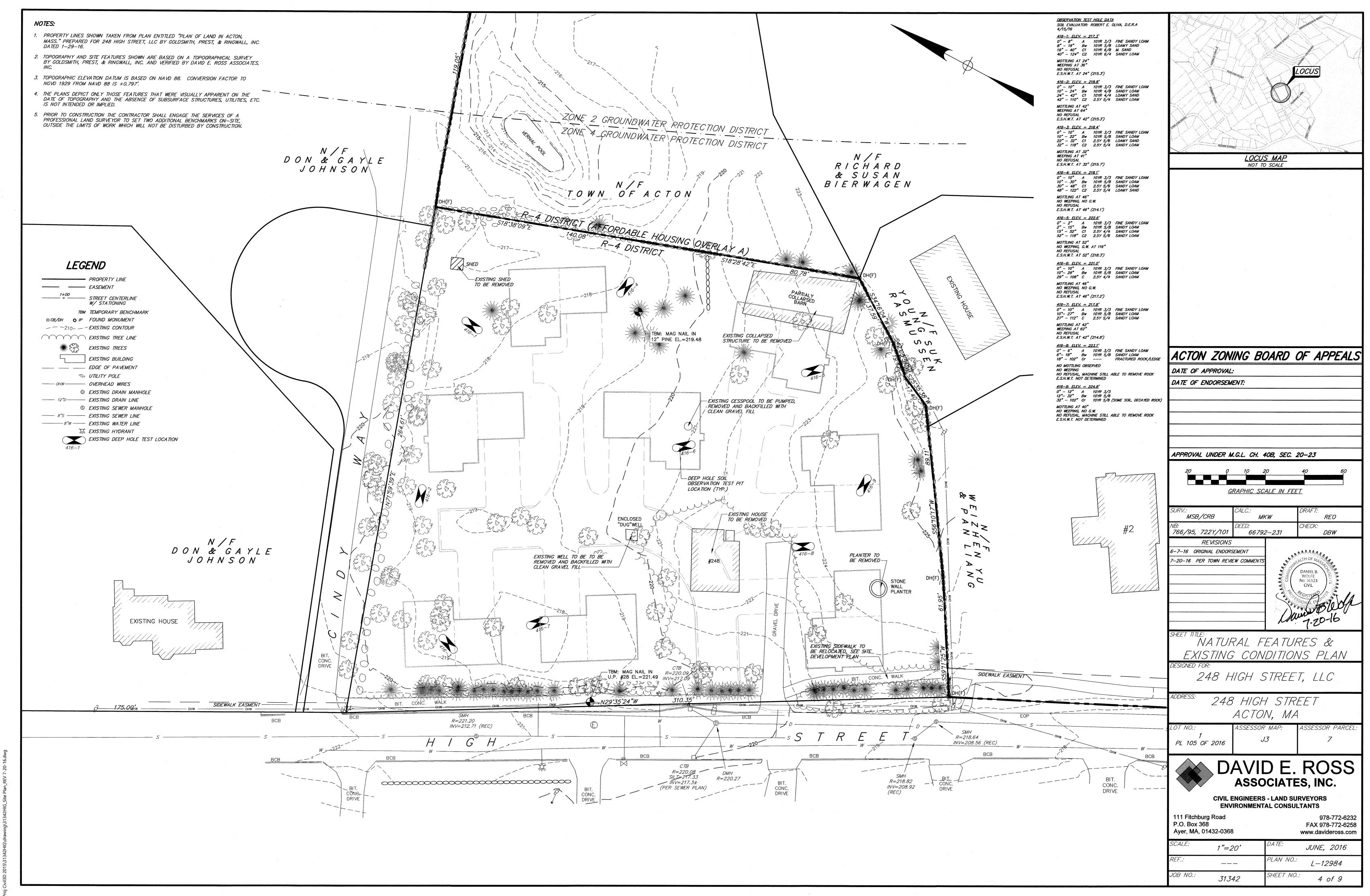
APPROVAL UNDER M.G.L. CH. 40B, SEC. 20-23

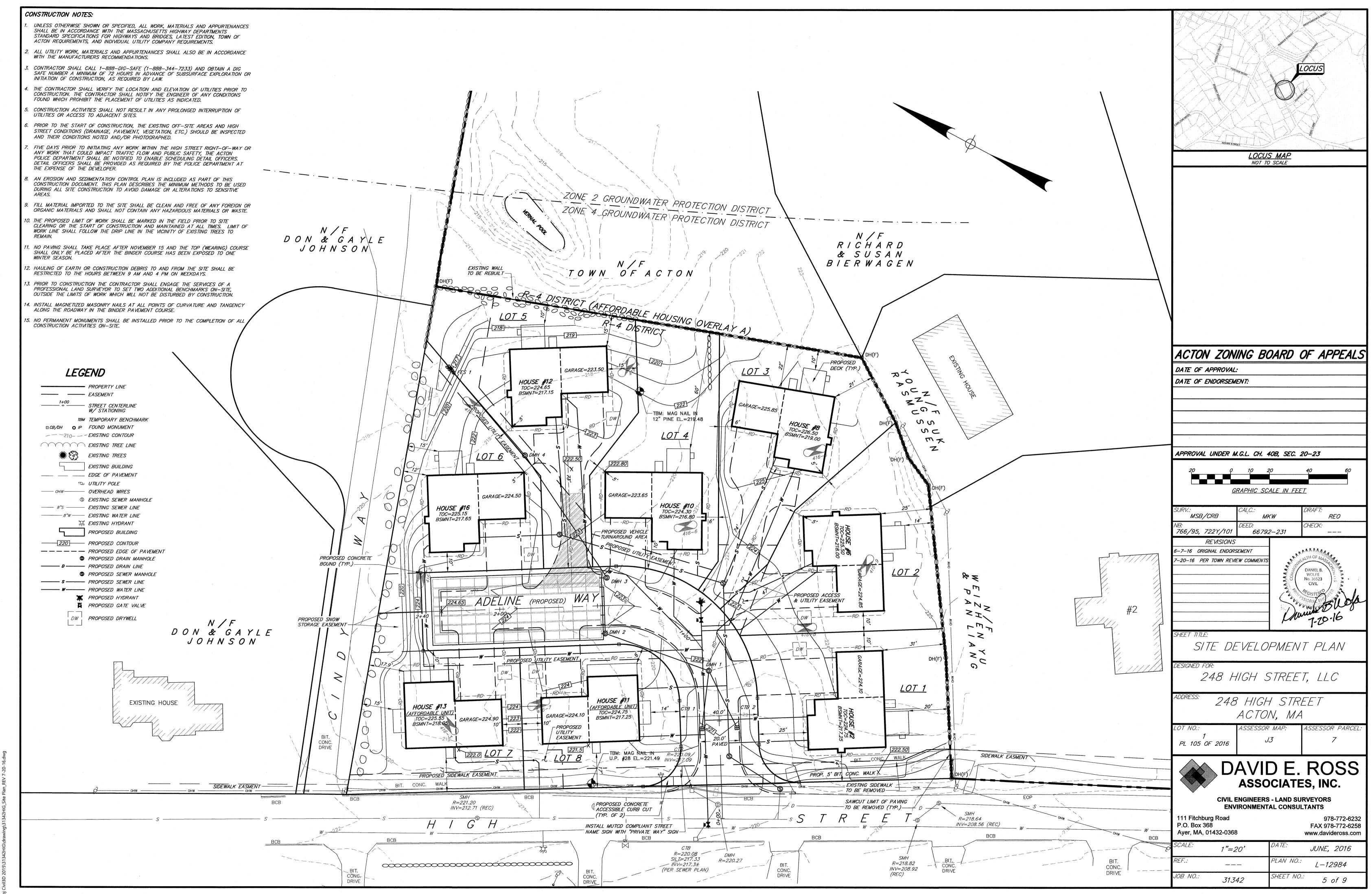
PLAN#L-12984 PROJECT #31342 JUNE, 2016

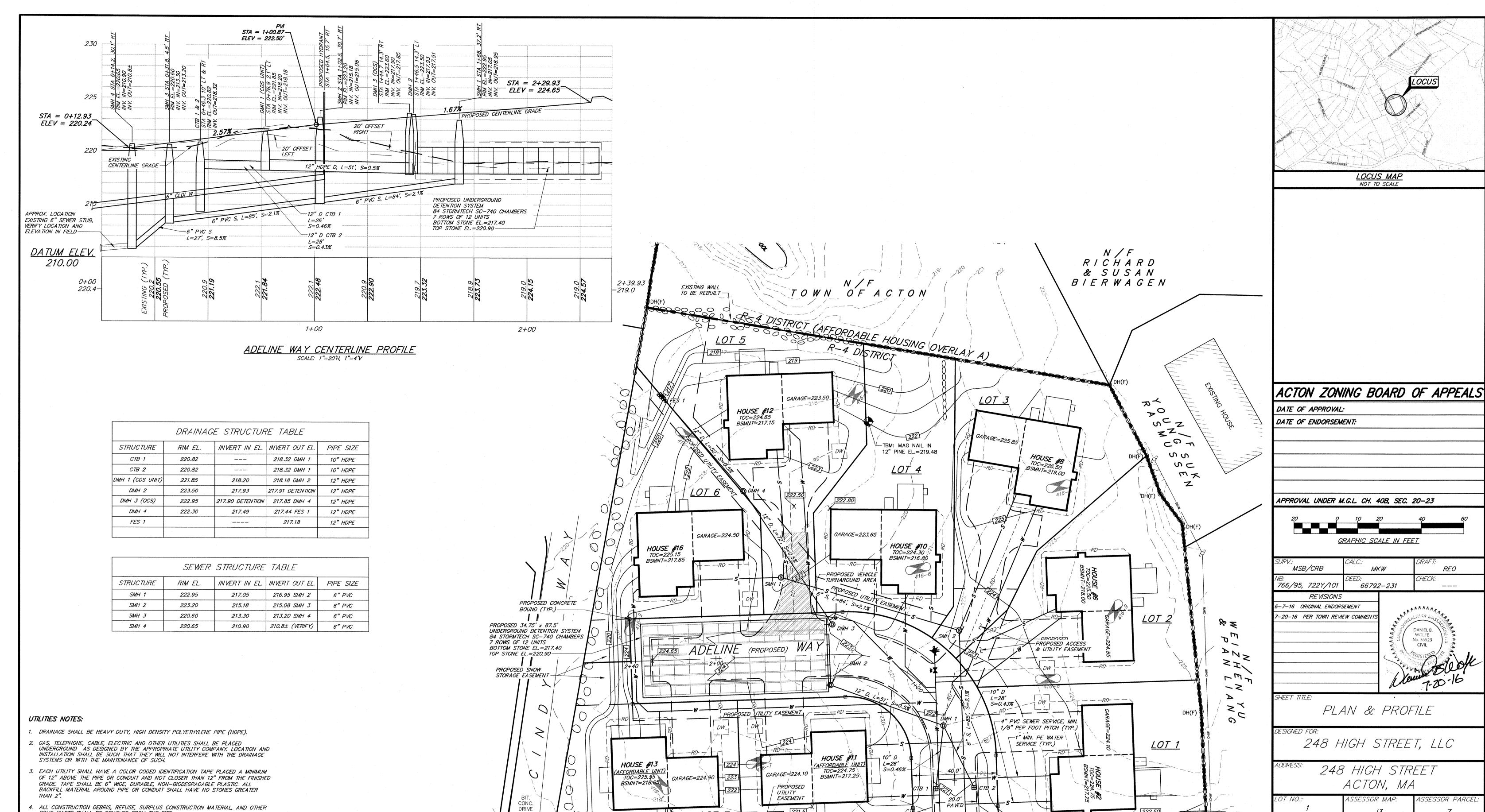
	REVISIONS	
6-7-16	ORIGINAL ENDORSEMENT	
7-20-16	PER TOWN REVIEW COMMENTS	











U.P. #28 EL.=221.49 ///

A PROPOSED CONCRETE

(TYP. OF 2)-

ACCESSIBLE CURB CUT

INSTALL MUTCD COMPLIANT STREET

NAME SIGN WITH "PRIVATE WAY" SIGN-

CTB

INV=217.3±

ADELINE WAY SITE PLAN

SCALE: 1"=20"

R=220.08

PROPOSED SEWER

CLEANOUT (TYP. OF 2)-

BIT, CONC. WALK

PROPOSED SIDEWALK EASEMENT

R=221.20

INV=212.71 (REC)

G

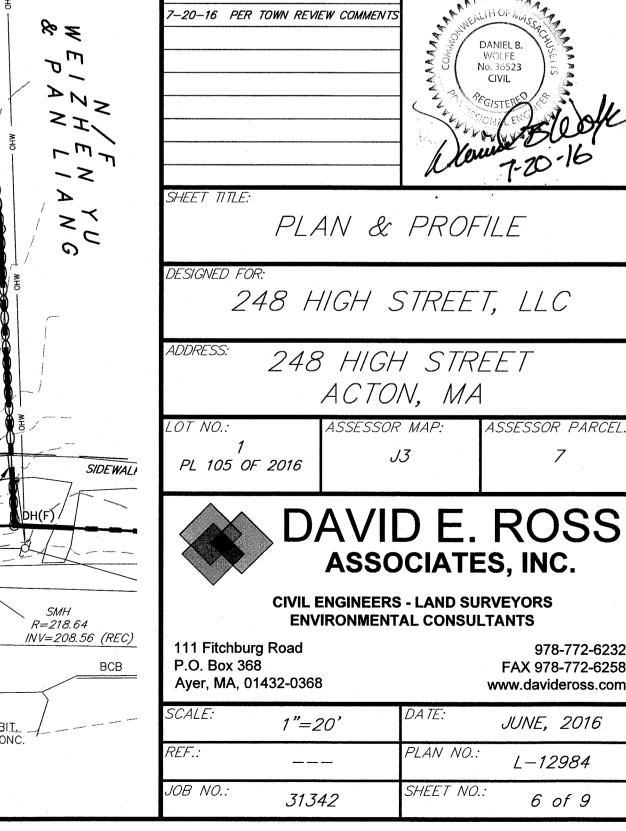
CONNECT SERVICE TO

VERIFY LOCATION AND

EXISTING 6" STUB,

INVERT LEVATION—

- SOLID WASTE SHALL BE REMOVED FROM THE SITE.
- 5. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH TOWN OF ACTON STANDARDS.
- NEW WATER MAINS AND SERVICES SHALL BE INSTALLED A MINIMUM OF 10' HORIZONTALLY OR 18" VERTICALLY ABOVE EXISTING OR NEW SEWERS. WHERE THE SEPARATION IS LESS THAN STATED ABOVE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF CLASS 150, OR GREATER, MECHANICAL JOINT CEMENT LINED DUCTILE IRON PIPE. BOTH PIPES SHALL BE PRESSURE TESTED BY AN APPROVED METHOD TO ASSURE WATERTIGHTNESS.
- CATCH BASIN SUMPS, STORMWATER TREATMENT UNITS, AND THE DETENTION SYSTEM SHALL BE THOROUGHLY CLEANED UPON THE COMPLETION OF CONSTRUCTION AND ANNUALLY THEREAFTER.
- 3. ROOF DRAIN CONNECTIONS SHOWN FOR COORDINATION PURPOSES WITH OTHER UTILITIES. CONTRACTOR SHALL DETERMINE LOCATION AND ELEVATIONS. ALL ROOF DRAINS SHALL BE CONNECTED TO THE UNDERGROUND DETENTION SYSTEM EITHER DIRECTLY OR THROUGH THE DRAINAGE SYSTEM AS SHOWN.
- 9. ALL SEWER MAIN AND SERVICE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE "SEWER USE REGULATIONS" OF THE ACTON BOARD OF SEWER COMMISSIONERS.
- 10. ALL WATER MAIN AND SERVICE CONNECTION CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE "WATER MAINS AND APPURTENANCES SPECIFICATIONS" OF THE ACTON WATER DISTRICT.



978-772-6232

FAX 978-772-6258

www.davideross.com

JUNE, 2016

L-12984

6 of 9

PROP. 5' BIT. CONC. WALK X

BCB

R=220.27

CONNECT WITH NEW

= STAINLESS STEEL TAPPING

SLEEVE AND GATE VALVE

EXISTING SIDEWALK

SAWCUT LIMIT OF PAVING

-TO BE REMOVED (TYP.)——/ D

R=218.82

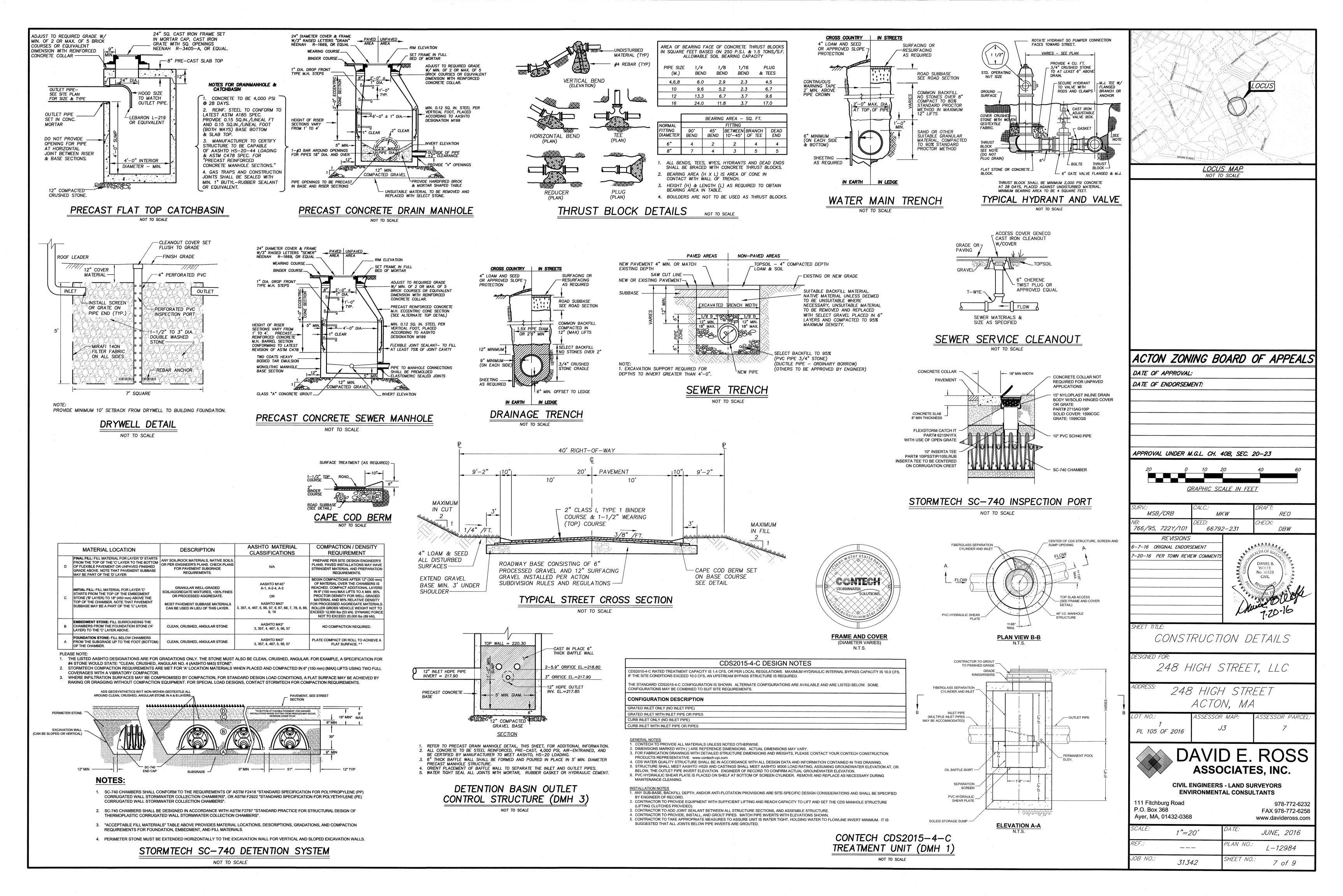
TO BE REMOVED-

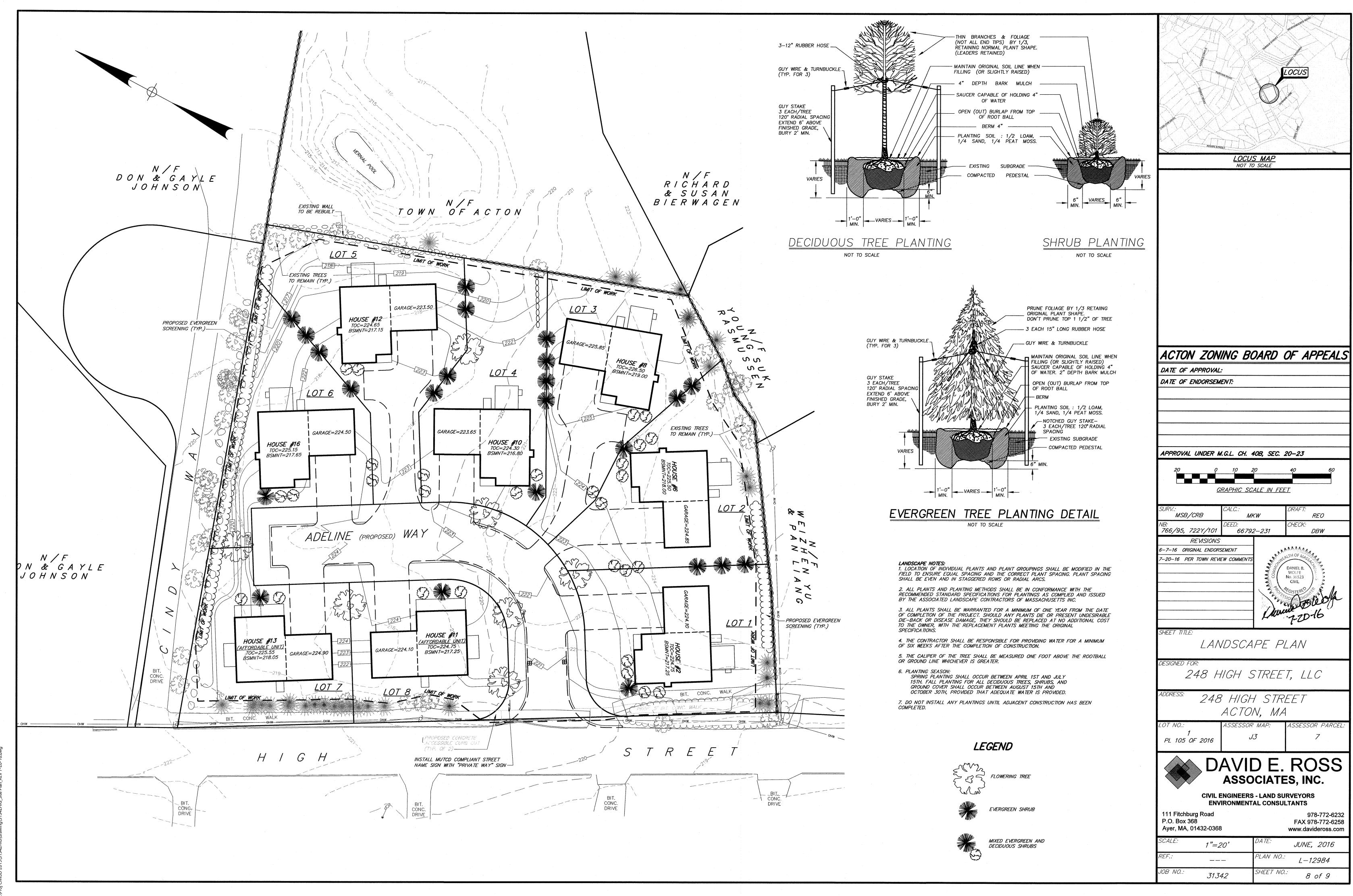
-INSTALL NEW SMH ON

VERIFY LOCATION AND

INVERT ELEVATION

EXISTING 6" SEWER STUB,





STORM WATER POLLUTION PREVENTION AND EROSION & SEDIMENTATION CONTROL PLAN EROSION CONTROL MEASURES:

1. THE CONTRACTOR AND PROPERTY OWNER SHALL BE RESPONSIBLE FOR ENSURING THAT EROSION AND SEDIMENTATION ARE CONTROLLED. THIS PLAN SHALL BE ADAPTED TO FIT THE CONTRACTOR'S EQUIPMENT, WEATHER CONDITIONS, ANY SPECIAL CONDITIONS ISSUED BY THE ACTON ZONING BOARD OF APPEALS.

2. THE MOST IMPORTANT ASPECTS OF CONTROLLING EROSION AND SEDIMENTATION ARE LIMITING THE EXTENT OF DISTURBANCE AND STABILIZING SURFACES AS SOON AS POSSIBLE. OF SECONDARY IMPORTANCE IN EROSION CONTROL IS LIMITING THE SIZE AND LENGTH OF THE TRIBUTARY DRAINAGE AREA TO THE WORK SITE AND DRAINAGE STRUCTURES. THESE FUNDAMENTAL PRINCIPLES SHALL BE THE KEY FACTORS IN THE CONTRACTOR'S CONTROL OF EROSION ON THE SITE.

3. ALL DISTURBED SURFACES SHALL BE STABILIZED A MINIMUM OF 14 DAYS AFTER CONSTRUCTION IN ANY PORTION OF THE SITE HAS CEASED OR IS TEMPORARILY HALTED UNLESS ADDITIONAL CONSTRUCTION IS INTENDED TO BE INITIATED WITHIN 21 DAYS.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF ALL EROSION CONTROL DEVICES ON—SITE. ALL EROSION CONTROL DEVICES SHALL BE REGULARLY INSPECTED. ANY SEDIMENTS REMOVED FROM THE CONTROL DEVICES SHALL BE DISPOSED OF

ON THE UPLAND SIDE OF THE EROSION CONTROL LINE.

5. AT NO TIME SHALL SILT-LADEN WATER BE ALLOWED TO ENTER SENSITIVE AREAS (WETLANDS, OFF-SITE AREAS AND DRAINAGE SYSTEMS). ANY RUNOFF FROM DISTURBED SURFACES SHALL BE DIRECTED THROUGH SETTLING BASINS AND EROSION CONTROL BARRIERS PRIOR TO ENTERING ANY SENSITIVE AREAS.

GENERAL CONSTRUCTION REQUIREMENTS:

1. ANY REFUELING OF CONSTRUCTION VEHICLES AND EQUIPMENT SHALL TAKE PLACE OUTSIDE OF ANY 100 FOOT BUFFER ZONE TO ANY WETLANDS.

3. NO MATERIALS SHALL BE DISPOSED OF INTO ANY WETLANDS OR EXISTING OR PROPOSED

NO ON-SITE DISPOSAL OF SOLID WASTE, INCLUDING BUILDING MATERIALS IS ALLOWED ON

DRAINAGE SYSTEMS.

4. ALL SITE WORK SHALL BE STABILIZED AT THE END OF THE WORK DAY OR PRIOR TO

ANTICIPATED CONDITIONS WHICH COULD CAUSE EROSION OR AIR-BORNE SEDIMENT PROBLEMS

(I.E., RAIN, HIGH WINDS, EXPOSED SURFACES OR STEEP SLOPES).

5. SITE OPERATIONS IN THE AREA OF DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER TO MAINTAIN OR CREATE GRADES AND SURFACES WHICH SLOPE AWAY FROM THE

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THAT THE STREET IS KEPT CLEAR OF CONSTRUCTION RELATED DEBRIS. ALL MATERIALS TRACKED INTO THE STREET SHALL

PRE-CONSTRUCTION:

BE PROMPTLY REMOVED.

1. A TEMPORARY STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED TO PREVENT TRACKING OF SILT, MUD, ETC. ONTO THE STREET. THE STONE SHALL BE REPLACED REGULARLY AS WELL AS WHEN THE STONE IS SILT LADEN. THE CONSTRUCTION ENTRANCE SHALL BE LEFT IN PLACE UNTIL THE BINDER PAVEMENT SURFACE IS INSTALLED.

2. EQUIPMENT IS NOT PERMITTED ONTO ABUTTING PROPERTIES UNLESS SPECIFICALLY

3. THE CONTRACTOR SHALL ESTABLISH A STAGING AREA ON A LOT TO BE DISTURBED FOR THE OVERNIGHT STORAGE OF EQUIPMENT AND STOCKPILING OF MATERIALS. NO STORAGE OF GASOLINE, OIL OR OTHER FUEL OR HAZARDOUS MATERIALS IS PERMITTED WITHIN 100' OF THE

VERNAL POOL ON THE LAND OF THE TOWN OF ACTON.

4. CONSTRUCTION MATERIALS SHALL BE PILED IN SUCH A MANNER AS NOT TO CONCENTRATE

5. IN THE STAGING AREA, THE CONTRACTOR SHALL HAVE A STOCKPILE OF MATERIALS REQUIRED TO CONTROL EROSION ON—SITE TO BE USED TO SUPPLEMENT OR REPAIR EROSION CONTROL DEVICES. THESE MATERIALS SHALL INCLUDE, BUT ARE NOT LIMITED TO, HAYBALES,

6. THE CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL ON SITE AND SHALL UTILIZE EROSION CONTROL MEASURES WHERE NEEDED., REGARDLESS OF WHETHER THE MEASURES ARE SPECIFIED ON THE PLANS.

PRELIMINARY SITE WORK:

MATERIAL REMOVED SHOULD BE STOCKPILED, SEPARATING THE TOPSOIL FOR FUTURE USE ON THE SITE. EROSION CONTROLS SHALL BE UTILIZED ALONG THE DOWNSLOPE SIDE OF THE PILES IF THE PILES ARE TO REMAIN MORE THAN THREE WEEKS.
 STOCKPILES SHALL BE LOCATED AS NEEDED, WITHIN THE LIMITS OF DISTURBANCE, IN AREAS OF MINIMAL IMPACT. IF A STOCKPILE IS LOCATED ON A SLOPE, THE RUNOFF SHALL BE

DIRECTED AWAY FROM THE PILE. STOCKPILES SHALL BE CONTAINED WITHIN HAYBALE DIKES.

3. NO SOIL OR LOAM SHALL LEAVE THE SITE EXCEPT IN ACCORDANCE WITH THE ACTON GENERAL BYLAWS.

4. GRUBBING AND STRIPPING ON SLOPES LEADING TO ANY SENSITIVE AREAS SHALL NOT OCCUR DURING PERIODS OF HEAVY RAIN.

5. IF INTENSE RAINFALL IS ANTICIPATED, THE INSTALLATION OF SUPPLEMENTAL HAYBALE DIKES, SILT FENCES, OR ARMORED DIKES SHALL BE UTILIZED. ADDITIONAL TEMPORARY SETTLING BASINS ARE REQUIRED, LOCATED WITHIN THE DISTURBED AREA, TO MINIMIZE THE TRIBUTARY AREAS.

ROUGH GRADING OF THE ROADWAY SHOULD BE CONDUCTED IN SUCH A MANNER AS TO

MAINTAIN OR CREATE GRADES SLOPING INTO TEMPORARY DETENTION BASINS WHEREVER POSSIBLE.

7. SIDE SLOPES SHALL NOT EXCEED A SLOPE OF TWO—FEET HORIZONTAL TO ONE—FOOT VERTICAL.

DRAINAGE SYSTEM:

1. THE DRAINAGE SYSTEM SHALL BE INSTALLED FROM THE DOWNSTREAM END UP. SEDIMENT SHALL NOT BE ALLOWED TO ENTER THE SYSTEM.

2. WATER SHALL NOT BE ALLOWED TO ENTER PIPES FROM UNSTABILIZED SURFACES.

3. TRENCH EXCAVATIONS SHALL BE LIMITED TO THE MINIMUM LENGTH REQUIRED FOR DAILY PIPE INSTALLATION. ALL TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE. THE ENDS OF PIPES SHALL BE CLOSED NIGHTLY WITH PLYWOOD.

4. IF UNSTABLE AREAS ARE ENCOUNTERED ON THE SITE DUE TO NATURAL SPRINGS OR GROUNDWATER BREAKOUT, INTERCEPTOR DRAINS SHALL BE INSTALLED TO DIRECT THE RUNOFF INTO THE DRAINAGE SYSTEM.

5. THE DRAINAGE SYSTEM BASE MATERIAL SHOULD BE PLACED AS SOON AS POSSIBLE AND SHOULD NOT BE DEFERRED TO THE TIME OF PAVING. CAREFUL CONSIDERATION SHOULD BE GIVEN TO RUNOFF PATTERNS DURING THIS PERIOD AND TEMPORARY CONTROL DEVICES SHOULD BE ERECTED OR CONSTRUCTED AS REQUIRED.

6. IMMEDIATELY FOLLOWING PAVING, THE SHOULDERS SHALL BE GRADED, LOAMED AND SEEDED AND MULCHED IF NECESSARY. ALL SURFACES SHOULD BE RAPIDLY AND THOROUGHLY STABILIZED TO THEIR FINAL CONDITION TO AVOID ENTRY OF SEDIMENTS INTO THE DRAINAGE SYSTEM.

7. AT THE COMPLETION OF WORK, THE DRAINAGE SYSTEM SHALL BE INSPECTED. ANY FOREIGN MATERIAL PRESENT SHALL BE REMOVED.

DUST CONTROL:

1. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL WHICH SHALL INCLUDE STREET SWEEPING OF ALL PAVED SURFACES WITHIN THE SITE AND OFF—SITE AREAS THAT ARE IMPACTED BY SITE CONSTRUCTION ON A REGULAR BASIS, AS NEEDED.

2. ROADWAYS SHALL BE MAINTAINED FREE OF DIRT AND DEBRIS AND SHALL BE SWEPT AS CONDITIONS WARRANT DURING CONSTRUCTION ACTIVITIES.

3. UNSTABILIZED AREAS SHALL BE WATERED AS CONDITIONS WARRANT TO PREVENT AIRBORNE

WATER SUPPLY AND UTILITIES:

1. CARE SHALL BE TAKEN TO ASSURE THAT THE UTILITY TRENCHES DO NOT CHANNELIZE RUNOFF TOWARDS THE SENSITIVE AREAS.

TRENCH EXCAVATIONS SHALL BE LIMITED TO THE MINIMUM LENGTH REQUIRED FOR DAILY UTILITY INSTALLATION. ALL TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE.
 WHEN EXCAVATING EACH WATER LINE, TRENCH EXCAVATION SHOULD BEGIN AT THE LOW END AND PROCEED UPHILL.

4. THE INSTALLATION OF THE WATER MAIN, HYDRANT, SERVICE, FITTINGS, AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE ACTON WATER DISTRICT SPECIFICATIONS.

I ANDSCAPING:

LANDSCAPING SHALL OCCUR AS SOON AS POSSIBLE TO PROVIDE PERMANENT STABILIZATION OF DISTURBED SURFACES.

2. CONTRACTOR SHALL UTILIZE A VARIETY OF SLOPE STABILIZATION METHODS AND MATERIALS, WHICH SHALL BE ADJUSTED TO THE SITE CONDITIONS. EROSION CONTROL BLANKETS OR MIRAFI MIRAMAT (OR SIMILAR PRODUCTS) SHALL BE AVAILABLE ON SITE.

OF VEGETATION, TEMPORARY MULCHING WITH HAY, TACKIFIED WOOD CHIPS OR OTHER METHODS SHALL BE PROVIDED.

4. A MINIMUM OF 4" TOPSOIL SHALL BE PLACED AND ITS SURFACE SMOOTHED TO THE

. IF THE SEASON OR ADVERSE WEATHER CONDITIONS DO NOT ALLOW THE ESTABLISHMENT

5. SEED APPLICATIONS SHALL BE IN ACCORDANCE WITH THE GRASS AND SLOPE COVER

6. TO ENSURE A DENSE, SUCCESSION GROWTH, SEED MIXTURE TYPE "C" IS REQUIRED ON ALL DISTURBED SURFACES, EXCEPT WHERE LAWN AREA IS PROPOSED.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT WATER AND/OR IRRIGATION FOR A MINIMUM OF TWO WEEKS FROM THE DATE OF PLANTING OF TREES AND AS

REQUIRED TO OBTAIN THE MINIMUM STANDARDS FOR LAWN SURFACE STABILIZATION. SEE

GRASS AND SLOPE COVER SPECIFICATIONS

GRASS AND SLOPE COVER SPECIFICATIONS.

1. ALL DISTURBED AREAS, INCLUDING SLOPES AND THE BIORETENTION AREAS, SHALL BE GRADED AND STABILIZED BY PLANTING OR OTHER METHOD AS SHOWN OR SPECIFIED ON THE

2. A MINIMUM OF 4" OF LOAM SHALL BE APPLIED TO ALL SURFACES TO BE SEEDED. LOAM SHALL BE UNIFORMLY APPLIED, SHAPED AND SMOOTHED.

3. LOAM ACIDITY SHALL BE CHECKED AND ADJUSTED TO A PH OF 6.5. APPLY LIME AT A MINIMUM RATE OF 50 LBS. PER 1,000 SQUARE FEET, IF NECESSARY (IF PERMITTED BY THE ORDERS OF CONDITIONS ONLY).

4. ORGANIC—SLOW RELEASE FERTILIZER OF A TYPE 5—2—2 APPLIED AT A RATE OF 50 LBS. PER 500 SQUARE FEET (IF PERMITTED BY THE ORDERS OF CONDITIONS ONLY, IF APPLICABLE).
5. RAKE A SEED BED USING A YORK RAKE OR HAND RAKING TO A MINIMUM DEPTH OF 3" THOROUGHLY INCORPORATING LIME AND FERTILIZER.

SEEDING MAY BE PERFORMED BY HAND, OR BY MECHANICAL OR TRACTOR MOUNTED SPREADER. HYDROSEEDING IS RECOMMENDED.
 AREAS SEEDED BEFORE APRIL 15 OR AFTER NOVEMBER 1 SHALL BE REAPPLIED BETWEEN

7. AREAS SEEDED BEFORE APRIL 15 OR AFTER NOVEMBER 1 SHALL BE REAPPLIED BETWEEN THE AFOREMENTIONED DATES IF A MINIMUM GERMINATION OF 90 COVERAGE, HAS NOT OCCURRED OR IF THE SURFACE AREA HAS ERODED OR BECOME UNSTABILIZED.

8. SEEDING:

- A. HAND SEEDING:
- SEED SHALL BE APPLIED BY HAND OR BY BROADCAST SPREADER, TO PROVIDE A UNIFORM DISTRIBUTION OF SEED.
- 2. SEED SHALL BE LIGHTLY RAKED INTO A DEPTH OF 1/2" 1", WITH ALL RAKING TO BE PERPENDICULAR TO THE SLOPE.
- 3. SEED IS TO BE ROLLED WITH A WATER BALLAST ROLLER TO ENSURE CONTACT OF SEED WITH SOIL. DO NOT COMPACT SOIL.
- 4. AREA SHALL BE MULCHED USING SEED-FREE STRAW TO ADEQUATELY COVER THE AREA TO A DEPTH OF 1/2" 1", ENSURING A UNIFORM COVER OF 75
- 5. MULCH SHALL BE SECURED BY MEANS OF SECURED LANDSCAPE FABRIC, EROSION CONTROL NETTING (3/4" 1" MESH), OR OTHER BIODEGRADABLE MATERIAL WHICH WILL ENSURE ADEQUATE COVER UNTIL THE SURFACE HAS GROWN TO 90 OR ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

B. HYDROSEEDING:

- 1. HYDROSEEDING IS ENCOURAGED FOR ALL AREAS, ESPECIALLY FOR LARGE AREAS
- 2. HYDROSEEDING SHALL BE PERFORMED IN A SINGLE UNIFORM LAYER.
- 3. A TRACK EQUIPPED MACHINE SHALL TRAVEL PERPENDICULAR TO ANY SLOPE TO PROVIDE COMPACTED SURFACE DEPRESSIONS FOR HYDROSEEDING TO CATCH, SUCH TRACKS SHALL BE A MINIMUM OF THREE (3') FEET ON CENTER FOR THE TOTAL LENGTH OF THE SLOPE.
- 4. APPLICATION RATES ON SLOPES GREATER THAN 3:1 (HORIZONTAL TO VERTICAL) SHALL HAVE A MINIMUM SEEDING RATE OF 4 LBS. / 1000 S.F.
- 5. A LATEX OR FIBER TACKIFIER SHALL BE USED ON ALL AREAS AT THE RATE RECOMMENDED BY THE MANUFACTURER AND ON ALL SLOPES IDENTIFIED ABOVE (NO. 4). A MINIMUM RATE OF 50 LBS. OF TACKIFIER PER 500 GALS. OF WATER SHALL
- 6. FERTILIZER AND LIME MAY BE INCORPORATED INTO THE HYDROSEED MIXTURE IN THE QUANTITIES AND TYPE IDENTIFIED PREVIOUSLY (IF PERMITTED BY THE ORDERS OF CONDITIONS ONLY).

9. SEED MIXTURE:

A. SEED MIXTURE TYPE "C": SEED MIXTURES FOR SLOPED AREAS SHALL CONSIST OF A STANDARD CONSERVATION MIX CONFORMING TO THE RECOMMENDATIONS OF THE U.S. NATURAL RESOURCES SERVICES GUIDELINES (FORMERLY THE SOIL CONSERVATION SERVICE, S.C.S.) AND SHALL CONFORM TO THE FOLLOWING STANDARDS:

MINIMUMS (BY TOTAL WEIGHT OF MIX):

INIMUMS (BT TOTAL WEIGHT C 20 % ANNUAL RYE 15 % RED TOP FESCUE 10 % WHITE CLOVER 5 % LADINA CLOVER 5 % CROWN VETCH

SHALL CONSIST OF WEED SEED SPECIES.

NO MORE THAN 40% OF THE TOTAL MIX, BY WEIGHT, SHALL CONSIST OF ANNUAL RYE OR OTHER ANNUAL SPECIES. APPLY AT A RATE OF 4 LBS. PER 1,000 SQUARE FEET.

B. ALL SEED SHALL BE OF THE PREVIOUS YEAR'S CROP AND SHALL HAVE A
QUANTIFIED MIXTURE ANALYSIS ATTACHED. NO MORE THAN 10% OF TOTAL MIXTURE

DRAINAGE SYSTEM OPERATIONS & MAINTENANCE PLAN

STORMWATER COLLECTION SYSTEM:

THE STORMWATER COLLECTION SYSTEM SERVING THIS SITE IS INTENDED TO BOTH COLLECT STORMWATER RUNOFF AND TO PROVIDE TREATMENT OF THE STORMWATER. THE STORMWATER COLLECTION SYSTEM HAS BEEN DESIGNED ON THE 100—YEAR STORM EVENT. THE PROPOSED STORMWATER COLLECTION SYSTEM COLLECTS RUNOFF GENERATED FROM THE SITE THROUGH THE USE OF CATCH BASINS, TREATMENT UNIT, AND SUBSURFACE DETENTION SYSTEM. RUNOFF FROM IMPERVIOUS SURFACES IS DIRECTED TO UNDERGROUND DETENTION CHAMBER SYSTEM. THIS PROMOTES IMMEDIATE TREATMENT, MORE EVENLY DISTRIBUTED INFILTRATION, AND AN AESTHETICALLY MORE ATTRACTIVE SITE. EACH PROPOSED CATCH BASIN IS EQUIPPED WITH A FOUR (4') FOOT DEEP SUMP TO COLLECT SEDIMENTS AND DEBRIS, AND AN OIL/GAS TRAP TO PREVENT THE INTRUSION OF HYDROCARBONS AND OTHER FLOATING MATERIALS FROM ENTERING THE DRAINAGE SYSTEM. ADDITIONAL TREATMENT IS PROVIDED BY A PROPRIETARY STORMWATER TREATMENT UNIT. WHEN THESE CONTROL MECHANISMS ARE FUNCTIONING PROPERLY, THEY PROVIDE FOR A REDUCTION OF CONTAMINANTS AND DEBRIS ENTERING THE STORMWATER COLLECTION AND RECHARGE SYSTEMS.

STORMWATER RUNOFF IS TO BE DIRECTED TO THE PROPOSED UNDERGROUND DETENTION CHAMBER SYSTEM THAT WILL COLLECT, RECHARGE AND ATTENUATE GENERATED RUNOFF.

THE ABOVE-DESCRIBED SYSTEMS RELY UPON PROPER MONITORING, OPERATIONS AND MAINTENANCE TO FUNCTION AS DESIGNED AND INTENDED. THE ACTIVITIES DESCRIBED BELOW ARE TO BE IMPLEMENTED AT THE BEGINNING, DURING, AND AFTER CONSTRUCTION OF THE PROJECT AS APPROPRIATE.

MONITORING AND OPERATION:

- 1. THE DRAINAGE SYSTEM IS REQUIRED TO BE MONITORED BY THE OWNER, WHO SHALL DIRECT AN INDIVIDUAL ENTITY TO ACT AS THE PROJECT SITE MANAGER.
- 2. THE CATCH BASINS AND TREATMENT UNIT SHALL BE INSPECTED ON A REGULAR BASIS TO ENSURE THAT THEY ARE WATERTIGHT (HOLDING WATER), THAT THEY HAVE ADEQUATE SUMP CAPACITY, THAT OIL/GAS TRAPS ARE IN PLACE, AND THAT GRATES AND FRAMES ARE FREE FROM STRUCTURAL DAMAGE AND ARE DRAINING FREELY.
- 3. LONG TERM SNOW STORAGE WILL BE AS SHOWN. ANY NECESSARY REMOVAL AND DISPOSAL OF SNOW FROM THE FACILITY SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL ORDINANCES, RULES, REGULATIONS, AND LAWS.
- 4. THE CATCH BASINS, TREATMENT UNIT, AND UNDERGROUND DETENTION CHAMBER SYSTEM SHALL BE INSPECTED ON A REGULAR BASIS TO ENSURE THAT NO DEBRIS IS OBSTRUCTING, THAT ALL INLETS ARE FREE-FLOWING, AND THAT NO DAMAGE HAS OCCURRED AS PART OF SITE MAINTENANCE OR ACTIVITIES.

OPERATIONS:

1. ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER. THERE SHALL BE NO OUTDOOR STORAGE OF HAZARDOUS MATERIAL, PETROLEUM PRODUCTS, FERTILIZERS, PESTICIDES, OR DE-ICING AGENTS.

2. PETROLEUM PRODUCTS:

- A. ONSITE VEHICLES AND PARKING AREAS SHALL BE REGULARLY MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO PREVENT LEAKAGE.
- B. PETROLEUM PRODUCTS SHALL BE STORED UNDER COVER AND SHALL BE IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.

3. FERTILIZERS:

- A. FERTILIZERS SHALL ONLY BE USED IN THE MINIMUM AMOUNTS AS RECOMMENDED BY THE MANUFACTURER.
- B. THE CONTENTS OF ANY UNUSED FERTILIZER SHALL BE TRANSFERRED TO A CLEARLY LABELED, SEALABLE PLASTIC BIN, TO AVOID SPILLAGE.
- 4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL OR NATURE WILL BE REPORTED TO THE APPROPRIATE STATE, LOCAL OR FEDERAL AGENCY, AS REQUIRED BY LAW.
- THE USE OF SODIUM CHLORIDE FOR ICE CONTROL SHALL BE MINIMIZED CONSISTENT WITH PUBLIC HIGHWAY SAFETY REQUIREMENTS.

MAINTENANCE:

THE APPLICANT SHALL COMPLY WITH THE FOLLOWING MAINTENANCE SCHEDULE:

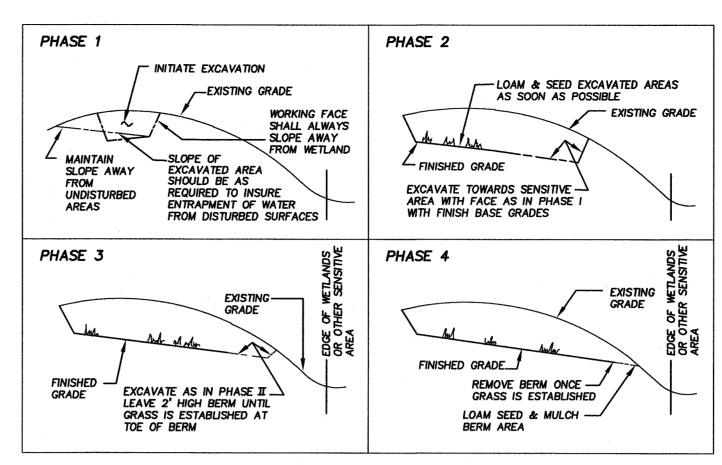
- 1. MONTHLY INSPECTION FOR DAMAGED OR CLOGGED CATCH BASIN GRATES.
- 2. ANNUAL VISUAL INSPECTION OF UNDERGROUND INFILTRATION CHAMBER SYSTEM FOR SIGNS OF STANDING WATER OR SEDIMENTATION OF CRUSHED STONE BEDDING.
- 3. BIANNUAL SWEEPING OF THE PARKING LOTS.
- 4. BIANNUAL CLEANING OF THE CATCH BASINS AND OIL/GRIT SEPARATORS.

IN ADDITION:

- 5. STREET, DRIVEWAYS AND GUTTERS SHALL BE SWEPT CLEAN OF DEBRIS AND ACCUMULATION ON A REGULAR BASIS. AT A MINIMUM, A SPRING AND FALL CLEANING SCHEDULE IS RECOMMENDED.
- 6. THE CATCH BASINS SHALL HAVE THE SUMPS CLEANED AT ANY TIME OF THE YEAR WHEN 2 FT. OR LESS SPACE EXISTS BELOW THE OUTLET INVERT, OR A MINIMUM OF ONCE PER YEAR, REGARDLESS OF SUMP ACCUMULATION. ALL DEBRIS FROM THE CLEANING SHALL BE DISPOSED OF OFFSITE AND IN A MANNER AS PRESCRIBED BY LAW.
- 7. ALL OIL & GREASE TRAPS SHALL BE CHECKED FOR PHYSICAL INTEGRITY AND WATERTIGHT SEALS IMMEDIATELY AFTER EACH CATCH BASIN INLET CLEANING.
- 8. OIL ABSORBING PILLOWS OR OTHER MEANS SHALL BE USED TO REMOVE ACCUMULATIONS OF HYDROCARBONS (OIL / GREASE) IN CATCH BASINS AND WATER QUALITY INLETS THAT ARE REGULARLY OBSERVED TO CONTAIN HYDROCARBONS WHICH DO NOT EVAPORATE BETWEEN INSPECTIONS.
- ALL BROKEN, LEAKING OR OTHERWISE DAMAGED STRUCTURES SHALL BE REPAIRED PROMPTLY UPON DISCOVERY.
- 10. UNDERGROUND DETENTION SYSTEM SHALL BE MONITORED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SUGGESTED OPERATION AND MAINTENANCE GUIDELINES.

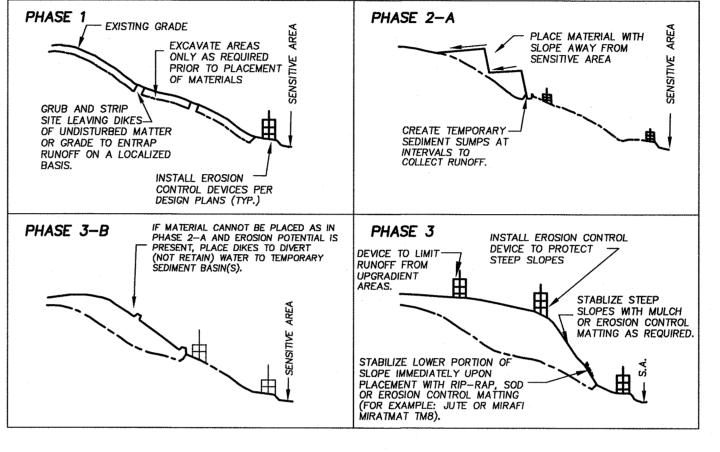
EXISTING ROAD 12" MIN. DEPTH AT EDGES

TEMPORARY CONSTRUCTION ENTRANCE

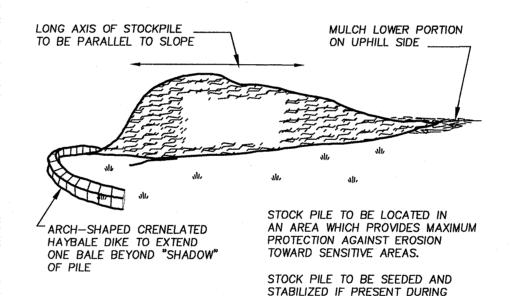


EXCAVATION SEQUENCE

NOT TO SCALE



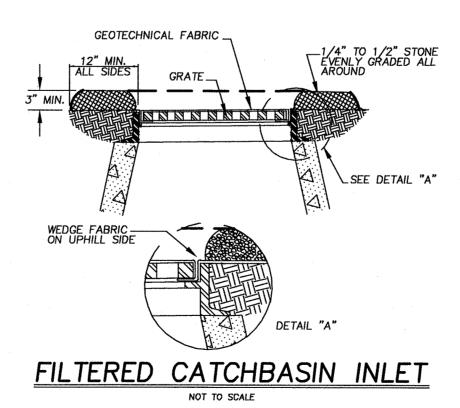
FILL SEQUENCE NOT TO SCALE

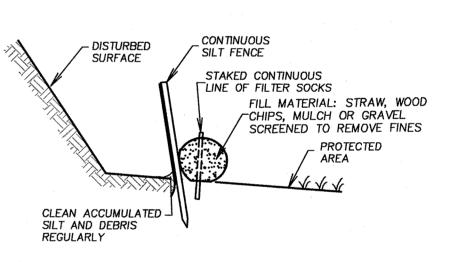


TEMPORARY STOCKPILE

NOT TO SCALE

HOUSE CONSTRUCTION





EROSION CONTROL BARRIER NOT TO SCALE

NOTE: LINES OF HAYBALES TO
BE PERPENDICULAR TO RUNOFF
FLOW DIRECTION

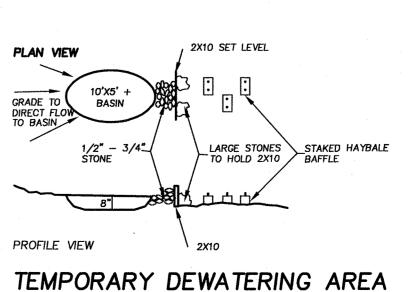
BALED HAY OR STRAW
MIN. SIZE SHALL BE
36"x18"x24"

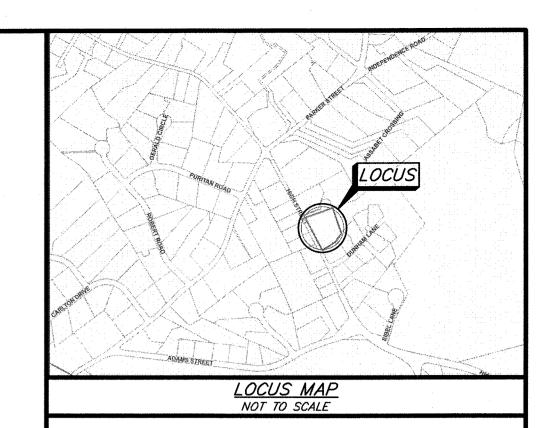
STAKES

PLAN

SECTION

HAYBALE DIKE



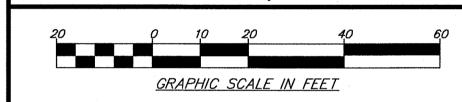


ACTON ZONING BOARD OF APPEALS

DATE OF APPROVAL:

DATE OF ENDORSEMENT:

APPROVAL UNDER M.G.L. CH. 40B, SEC. 20-23



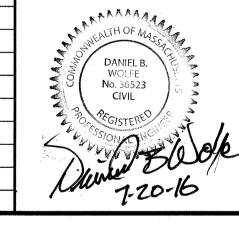
 SURV.:
 CALC.:
 DRAFT:

 MSB/CRB
 MKW
 REO

 NB:
 DEED:
 CHECK:

 766/95, 722Y/101
 66792-231
 DBW

REVISIONS
6-7-16 ORIGINAL ENDORSEMENT
7-20-16 NO REVISIONS THIS SHEET



FAX 978-772-6258

www.davideross.com

EROSION & SEDIMENTATION

CONTROL PLAN

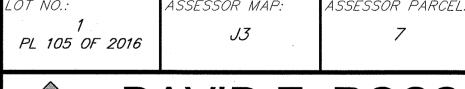
DESIGNED FOR:

248 HIGH STREET, LLC

248 HIGH STREET

ACTON, MA

ASSESSOR MAP: LASSESSO





ENVIRONMENTAL CONSULTANTS

111 Fitchburg Road

978-772-6232

P.O. Box 368

Ayer, MA, 01432-0368

 SCALE:
 1"=20"
 DATE:
 JUNE, 2016

 REF.:
 -- PLAN NO.:
 L-12984

 JOB NO.:
 31342
 SHEET NO.:
 9 of 9